TONS OF Issue 146 • 24th August 1991 • 881



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NOTEBOOK! But Apple's been pipped



SARAKON The new Mah-Jona? PLUS HOT NEWS!

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**ARCADE GAME** 

- But is it the future of home entertainment? see pages 55&56

ATARI ST: CD-I drives for your ST are on their way! Find out why, how and when on page 5

best value yet? - p49

Multi-tasking on your ST is here - exclusive review p53





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AMIGA

TechnoSound Turbo

Sarakon gare reviewed Golden Image

MultiGEM on your ST -

Sarakon game reviewed

reviewed ......

Serokon game reviewed MACINTOSH Outbound Notebook

PD utilities, the legacy of the C64GS and American 3-D Pool... SPECTRUM Music Writer accessory

for Nightshift, the return

of Space Invaders and the Power Up

COVER FEATURE.

Amazina arcade action! Could Sega's new system point the way for holographic displays on your desktop? - page 55

\*Time Travelers setting new trends?

----REVIEWS -

Multi-tasking on your ST with MultiGEM But can it really make working on your machine that much easier? Find out on page 49

· AST's Bravo PCs the same

story

PC perfection? Are AST's two new machines special enough for you to change

to a new model? - page 53

- EVERY WEEK ---News: hot stuff, but can you handle it? - page 4-8

What's New A British designed Pen input computer, PC TV Tuner, Budget 286 PC, V32bis modem

and 386SX cache for the PC - page 10 Want to swap your keyboard for a pen?
You can with the VPI386 pen-input computer



Amiga, ST

Games Week Tips, news and review of Sarakon - page 50

A £600 Amiga genlock is up for grabs Fancy yourself as a home movie maker? You can add the professional touch to your videos if you win this prize - p 58

SHOPPING EXPRESS -Letters C64 Programmi 30 16 CPC 23 Tech Tips Mac 24 Online PD Colu 20 **Event Horizon 46** 

24 AUGUST 1991 • NEW COMPUTER EXPRESS • 3

### NEWS

NIBBLES

Nintendo makes moves in Europe

Massive Japanese comput manufacturer Ninteeds hat announced that it would lik to have eight million Game Boys in European homes to the end of 1962. The company also pli to have shifted 10 million

Super Famicom gam consoles in Europe I same period.

> Those ever wacky Californians have just a

one step further in their search for a bill of history of their own. A plaque will go up on the wall at 644 East. Charlestone Boad in Palio Alto California in honcer of Dr Robert Mogra, the investor of the Integrated circuit. I plant the plaque in Silicon Valley where Bill Heelett and David Fackard cooked us their computer in a

### Commodore's S60m profit

No doubt due to the over whelening success of the Amiga, Commodern has pooled 1991 Tiscall year results of \$57.4 million on the basic of sales worth \$1,047.2 million. The compare appoint that this is an 18 per cent increase in sales on the same period in 1992. Will it do even better after COT 19 his the

### Hypercard for the ST?

An enterprising company has released a Hypermedia package for the ST. The program enables the user to create a series of cords

ModeySoft reckes that he program is a perfect eaching tool due to the way a which the various cards an be accessed.

in which the various cards can be accessed.

No pricing details are ssaliable yet but WooleySoft can be cardacted at flumblesknows Cottage, flumblesknows Cottage,

### Mercenary III: defend Dion from evil

facil Waskes, the chap who brought repressive Mincenary has been but oftow up. The original game was un Vookus created an cettre solar syst

fections up. The original gains was surique in the following. The original gains was surique in the planes, any of which you could visit need from about 00.

Mercenary III is different to its prediccess in that it is taken on board the even triming you take it is taken on board the even triming you properly on the previous properties to be high planes of III is also on the previous properties to the ball planes of III is not other his open cost mind other games, there is no just you can solve the same game, and Versian is not proper to have the large and Mirchael is hopping to large the Insuit



### Archimedes highlights

Three new programs have been released for the Archimedes. Hydighter (ISO) is an information handing package which links graphics and text together in much the same way as Hypercard does on the Mar-

same way as Hypercard does on the Mac.

Plecal (CSO) is a database designed with children in mind disrpse (E15) is a utility which lacilitates the display of proprietary sprite files while running a CIP program. Sherson Sotware can be

Outbound launches 3 Mac-compatible notebooks in US

# **APPLE IS PIPPED!**

Just two months before Apple is to launch its own relaback style partables, US Mac cloners, Outbound, arrested a family of three compatible

Running of 20MER, weighting only file on more paring \$5.5 or \$1.5 or done, the filmer machine include internal floop oftens and a variety of CRDAF thereony and had did a option. Little (APCAF did introduced terms prostite, tons 16th Mar PAPS did introduced Calendar to mar for up to their bows in software participation, and the company of \$60 post (CC) procept, the filmer anchoring a book (APCAF \$60 post (CC) procept, the filmer anchoring a book (APCAF \$50 post (CC) procept, the filmer anchoring a book (APCAF \$50 post (CC) procept, the filmer anchoring a book (APCAF \$50 post (CC) procept, the filmer anchoring a book \$60 post (CC) procept, the filmer anchoring a book \$60 post (CC) procept, the filmer and the company direct on \$60 post (APCAF \$60 post (CC) post (APCAF \$60 post (CC) post (APCAF \$60 post (APCAF \$60

The Neabook System 2006 comes with a 56000 processor, 28th of FAMI and either 20th or 4MM hard others white the System 2000 features a Motorals 60000 processor running at 20MHz. 48th of memory and optional 40 or 68thb directs. Both are available immediately.

\*Outbound's new 2000les Mar.
antibious with 2000 lead drivefeet, figilit and a cheap

afternative at only \$2,300?

The final model in the series is the 2000 which word ship snell the end of the year. This run on a 6650 and will offer virtual memory and above the 4Mb on-board RAML Han

drive options are the same as the 2000.

In the face of Applies tough policy or copyright intringement. Outdoord appears to have found an expension of some Macintonia FDIIIIS in its now matebooks. The company selfs the

of resulting compatibility that even Applia's brand new Spaless if operating system can be run-or the range. Interestingly, the stage features or Tacobias device located near the keylocant's space bar which function as a mouse allements. An application be connected if preliment, as can any other familiar peripheral as the materiories of the Applia Bulk-SCSI and two features the control or as the state for citizen.

> At the entry level price of SULSIX, Film 299 for the 60Mb 2000 machine, the notable expected to compete very closely with Ap froming range expected in late October, III

## omark deals out sport and violence

ULTRA VIOLENT PITFIGHTER ari coin-op Pitiphter came in for

Sack due to the completely brute! 'sport' which it depicts. Domark has acquired the facence to the game and has roped in the Tarpes programming learn to convert it.

The idea of the game is to service a series of bours in a pit. The reason it's series of series of bours in a pit. The reason it's series of bours in a pit. The reason it's series of bours in a pit.



sicking him her when help to clean or stabiling them with a lartic.

The audience watching the matrix has a landance to go against yea, so it good idea to stay, away from them; get close and you'll find growned being stanging by a large biller with a chain. Poligister will be available for the Amalga and ST of 25.09. Commodion 6 (CH 49 close, CH 690 layer, America CH 4544 CT/600 latence and Spectrum (CT)

RUGBY RUCKS
Even if you've only caught 10 minute
in the last month, you can't have fall
eatice that this year's World Cup rug

a year s recess cop rugsy is are being held in Britain, is preducing an official Rugt sprainulator, claims its simulator "is to be Offia to leedhall" his

 All 16 teams are included it Rugby - The World Cup, so y can watch England thresh Wales and then get beaten to pulp by the New Zealand tea

pulp by the New Zeeland teel included all that fur-filled rupply action, or as kicking, shirt-pulling, shiving and ban, in the game, along with the shall like tries conversions, line-outs, fouls and sorums filesase is set for late September. Atari all set to directly compete with Commodore's CDTV

# **CD-INTERACTIVE** FOR ST RANGE

Having revealed that it has already developed a CD-I based com

released in a standatione box for the ST, Mega ST and TT. The CD-I Philips. Sons and Matsushita have entered into an accord to

### MASSIVE STORAGE

### ST CD-I DRIVE TECH SPEC SQE: standard 12mm single-sided

FEAD SPEED: 170K per second with resolution would occupy 185K, so

ANIMATION: usually limited by the

have four display places, including a

Image planes and a background COLOURS: available at normal

Sharpen up

### vour storage Sharp has produced a 45 minute video to helo IO electronic organia-

you might like to know about a

Flectric Brain

Consele freaks will be oleased to

Electric Drain is a 32 page

ers get the most from their

### Complete Victorsoft touches base with the ST VCR control The German company Victorsoft GEM removes Victorant has included support for popular databases such as

If Sony has its way, you won't just be using your video with a remain central, you'll be connecting it up to the computer and controlling

launched its Vdeck HB Smm VCR which can be completely controlled from an Apple or a PC.

Oute what the applications for puler. The company says that both

Price change

processor or a spreadsheet, or from The small size of the program desk accessory. The actual size of author skimping on features. owners to utilise plenty of space for

made available from within any other

that each card is unique, rather than

# Video Togster for the Mac

The \$3,995 system is assentially an Amiga 82000 with a 'smart'



tange. Thumbelins costs \$39 from EXPRESS ... ... SNIPPET

# PIRACY COSTS **S2BN A YEAR**

Individuals, not corporates are to blame, says US survey

Software piracy is costing American software

BACK IN THE UK

aphenes sales in a single year, with the number of

presecution through the pirating of business soft

# Want a change of image?

EXPRESS... ... SNIPPET

# Big Blue's birthday

bemases your peers, here's some news that's really going to make 10 years old this month. 8085 CPU, a 64K memory and one

MS-CCS version 1.0 was suprior PC machines available with

Cutting boards

# If you wanna be a record breaker...

# The Archimedes may not be the best

**Bend your Renders** 

### 6 - NEW COMPUTED EXPRESS - 24 AUGUST 1001

Back up

HFDackup Professional

# Portfolio for the Mac and ST



New PC boards will be able to receive 119 channels

# PLUG INTO TV ON YOUR PC?

PC, while it's working out a maths intresing ested in a brand new board which can supply you with 119 channels of no-doubt thrilling complete with its own speaker. With the board retailed a PC would be capable of repriving 119

Commodore's

Far Eastern plant plans Just one month after the news that in Talwan, Commodore has announced that it is going to invest \$8.1 million in a plant in the

IN A DIFFERENT REALM The Canadian producers of the board, AVew

PCs make hard work

A survey conducted by AC Magazine in America reveals that 70

EXPRESS...

... SNIPPET

## Circuit designer for the Atari range

· Pleton can dump hard copy to plotters, 9-pin, 24-pin, inkjet and

original 3-D glory without

3-D TV, and no

silly glasses!

# TOMORROW'S **CUTTING EDGE**

If you want to keep up with the latest technological developments that are going to shape the future, then look no further - they'll be right here on this page

# Into the virtual Big Blue yonder

Japan that has hundreds of double-

when images are firmed by two for even creater depth, and which movements of objects more

applications for the screens are

that has immed as the Virtual Facility (VR) bandwagon by creeting a 'universal artificial world' which, it claims, can be used in many different altuations and The company's prototope version of the system

Eventually the IBM researchers want the system

### ADAPTABLE INTERACTION

IBM's 'universal artificial world' is only at the demon



. Will IRM's formy into the world of virtuality go as far as William Gibson's view of the future? Only

Dataflex Design is to launch a pocket sized imported services digital

Pocket comms

distribution

### Cold conductors Superconductivity has taken another loop forward with a new

High temperature, however, is a relative term; they

### The world's safest computer Pulitsu has developed what it claims is the

computer can be used in such dangerous.

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Maxam VII Plus modem

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to shain the dearest reception on noisy

East cache

HRCCOCT: 3865X NAME CompuSys 2225X Cache COMPATIBLITY: PC

expandable to 1956s, a 4056 hard 668 and

Perseived competition: AST Bosto, AUS

TV Windows Screen Machine TV Tuner COMPATIBLITY: PC. Med

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to 4Ms, a 14-inch calour VGA monitor with a

Perceived competition: The only 286 in this Compulses Postast DNN Technology ECDIN.



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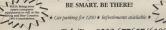
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deter the casual copies

any other readers out there who on copying? Perhaps someone YES ANDY, I think the 'stalling'

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To Sick or What?

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AND INDEED you are correct - while the

Well said!

To further fuel the debate over the ranging from ripping off These disks DO spirit, they AREN'T stories. The point here is Express

THANKS FOR THAT Stuirt, perhaps. justification for them on any level. Again

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it privately! Here they no teeth?

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Children's Hospital.

That debate

something for nothing that makes

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### AMIGA GAMES RUSTINGS!

## NEXT WEEK

AudioMuster 3 left off, Audition 4

What's Atari got up its sleeve for Dusseldorf? Making upgrades easy, the Xtra-RAM Deluxe Sneak preview of the next stage in golf sims

SCAN THE HEADLINES Golden Image, purveyor of quality

CHATUS An almost instant zoom full Golden Image is at Fairways

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Frontier Software has used SIMMS in its RAM cards to make upgrading less of a chore

STFMs will want to update inputer one day, possibly to a this and, its beand new rangegrades consists of SMMs (Size e Memory boards). These nath units (who coming scending of an inrelated) have already summerted in the STE. The

implemented in the STE. They are professible to other forms of SAM boards because replacing them is an ampleyor, just pull them out of their sides and page in a board with a greater capacity. Freder believes that by offering SAM Loggade boards to owners or standard STEMs, people are more likely to see the PAM as a fore-term purchase which can be moved from computer and the same of the computer which can be moved from computer processing the same of the processing the same of the processing pro

> zoe coreas in 1-, 2-, 2.5- and lions. The installation of RAM apprais

containly insules a change to a ind of prefessional attitude : of black and white photo-colets with bloo-drawn diagnams. you altrady own some S s. Frontier can supply you will published unit for CSB-59. The D. n costs CBS-99, the 2Mb ver C113-99 and the 4Mb flavour of C113-99 and C113-99 and

version costs 693.93, the 2Mb version costs 5113.99 and the 4Mb flavour costs 5195.99. Profese can be found at at PO Box 113, Harrogata, North Yorkshire,

113. Harrogata. North Yorkshire. Ergland, HSZ 697146.

ALCROPROSE TEES OFF Dear mit, they're not fide for fore, those chaps and chapses all Morganose. No sooner have they amounted their Game Pric simulator, than they bring soone some extramely tooly looking preview.

Pick derivative, than they heng occurcionne elementy tasty localing preview copies of a golf simulator. As assaul, the company's amazing attention to detail is all too evident haspine. If you will, all the different vasicides of the golf game there are you'll find all of here as an applie in the game; singles, saless, because the models, flaying and hears. In the company of the sales are all yout like its play you can change a yout like its play you can change.

u've chosen which game play you can choose a n you've got a decert wiew remion came with 12 to created courses, raiging was to \$1 Augustine. Pick a gainst whom you'd like to or computer) and the game thay is multiplior section.

At the start of each hole, an if verview of the course enables you to if toget enactly how far each club will a and the ball by means of a white ball. If

and the ball by means of a white ball rejection line travels up the fairway. When you're completely happy with our choice of club, the schein changes a siew behind your gotter as he lines a for his shot. It's possible to be netremely

rige your stance simply by clickin feet icon its move your feet its sired position. If you'd like the it ingher on the tee, click on the tee sizes or lower it accordingly. A tre happy that your golfer's san ecity you can play the shot. Microprose has plumped for a like or the stance of the tee. infusiting white dimply object the right direction. A to animation shows your golfs the ball and then some in animation takes over its.

notices the ball down the fairway,
par Like everything olde in the gar
be camera's position can be change
for example, you can have it aim
play soldow the ball firrupgh the siz, or have
as start of behind it and their no
con smoothly sound until it's in front or
warthing the ball failed not begins
in a
Microprosof's Gef is a real loy
play. You can expect to see it in

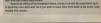
the LIK's biggest and best magazine to the the Arani ST, ST Format, is comen tell looking for a news editor. Turn to pay

### DUSSELDORF PREVIEW

assetdorf Atari show has traditionally been the event at which the company as to launch its new machines. On the surface it would appear this year's even no different. We all know that Atari has some wonderful new technology to all. The causeline is, however, will it be ready to abow?

theore related, though quite what this means, I'm not sere.

No doubt the company will be showing a new sersion of the ever-changing TOS.
ho knows, we night ever see a TOS which does the job it was designed to do, rather
are what the lock of hours distribe.





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specino bars added plus a whole

editing. Both editors are forti mode.Well, to be honest it just

Sector's CESIT 90 demol, a sinking

STOP keys. Within days you'll wonder

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Just enough space to mention Robocop 2, the film of which is

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yellers or recognition controls for the Pyou're to yeller the Windows Holp Compiler permitting mables you to add on-line fells systems (5149) until to Windows applications using the system in

rammers who want to put

vere horn 280 ores assemble ing initialisation command string pit to the ROM-programmin in. The software also include tonal assembly language, who tome in handy for debugging the arms before they go on to the in. Full details from D&S Sottwar 08 of 51504.

RELATE TO DATABASE

If you've locking for a relational distalases
system that rare under Wilhodows, SPI is
promoting ins 2005 WindowState for
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system supports Shrutured Query O

grad box, marrier Data Exchange allows y casa in other applications so the tion is updated autorecally. That application developers is a set of C and C++ developers in -t data threads and thorwise se functions as well as hos g. Windowskies applications code stored in Dynamic Life [DLLS]. A run-time version in this Monaulana productions.

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for machines ranging from the PC to transputer-based systems.

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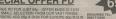


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biggest magazines, where the work will be hard

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## MIIITIGE MOVES

## **MULTI-TASKING**

Multi-taskina GUI's are fast becoming standard for modern computers, but the ST is left slightly out in the cold. Until now -MultiGEM brings ST users a faster

and more flexible way of using their machine, Nial Grimes moves around his desktop with lightning speed...

### PRODUCT: MultiGEM COMPATIBILITY: Atgri ST/STE/TT FROM: Grey imports CONTACT:Scotsoft International. 47 Auchingane, The Tryst, Edinburgh

In the release of Windows 3 on the PC and multi-tasking graphic user interfaces are fast were sturned to hear of the imminent release of MultiGEM - claiming to offer, at long last, a multi-

## MULTIGEM IN ACTION

configuration, although one megabyte or more of RAM The parkage also supports \$9000 and \$8000.



## Block Layout Style Spelling Graphics Hel eaST Editor/Assembler from RiSaft v 2.08 BIASECORD, HERATTHFUS, TET

TEMPUS is a text editor. It deals with ASCII of Product: Waltiers ST/STE/IT From: breg ingerts International Center I reg States of International

### . MultiGEM is multi-tasking Tempus, First Word Plus, Devpor 2 and The GEM desktop VISIBLE DIFFERENCES

apparent. Running a program no longer closes the

Clicking on an empty slot will select the GEM

Maxon has included a fully windowed text display program and the documentation simultaneously on

SHADES OF APPLE? In action MultiGEM cannot be faulted. Most revious

of MultiGEM a section in the manual is dedicated to

Those concerned by the prospect of losing six loss

MultiGEM is an excellent package. In terms of usability the package brings the ST into the realins of bundles it with every ST sold II .

VERDICT BOX

DOES THE OPPOSITION PUT UP A GOOD FIGHT? clude: Twist (Hi Set: , \$29.95) sitably the best and most reli

A It works! A Compatible with most GEM programs A Makes full use of the GEM windows AGAINST Wemory hungry COST: £99.95



It's the pages you've been waiting all week to read - Stuart Campbell comes in spinning with the latest releases and licences to hit the screens

### STAR RATINGS + + + + = 2000AD a Toxic! \* \* \* = The Beans

. - Computer And Video Games

## OCEAN BLUE

Then there's Wilskild, the longawated follow-up to Wizhall which is Nightbreed, Total Recall and Navy and him Hudson Hank a licence

Reboood 2, a stunning-looking game

bizarre follow up to Wizball

· Robocop 3, the game that is, not the film, will feature some incredible asimation and some

of a huge Robocop characte

goes back in the direction of Between in

NEED A CHALLENGE? (and rightly so) Lotus Esprit Turbo

three-player option (ris an extra

HERE IT COMES AGAIN

Since Miner 2049er more years ago

other game released would be yet another attempt at a Manie Miner clone. Switchblade 2. Still, all those years of

platform garning history is Monty Mole.

which only stood out from Manie Miner

DAYS OF THUNDER . Mindscope

it, for some strange and perverted

burden eased slightly by this tip. and type COMEFLYWITHME, You



## SARAKON



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· Not so much impossible as

### unbegrable... SIONIC COMMANDO - KILO et all by having an Arthur Scargill sprite

enormous 16-bit platform hits Alick

Dangerous and Rick Dangerous 2. By producing a game as completely

faced, Greenlin is trying to pain it off

## CapCom's corking coin-op olimbing



The only bits of impossurate come down from the trees?

the playability of the original while being

Great music wasn't enough to save still managed to get down to drugs,

STRYX . Sizzlers . \$7.99 16-bit only platforms-and-ladders game.

for Civismos + III

. What most people don't realise is that Strey actually features a shoot-'em-up sectio long before they reach it!

ATOMINO

## DINOSAUR

## BEG, BORROW AND BURN RUDN

BEG JAMEY WHITE'S WHIPLIWND SHOOKER + Virgin

games by anyone since the eforementioned best less un wowel

## BORROW

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## SPECIAL OFFER

HARDWARE

# THIS YEAR'S MODEL?

There are so many PCs available at the moment that any new models have to be special to succeed. Tim Howell sees if AST's Brava 286 and 386SX have that certain something which deserves applause



Rediscolly, there are just too many different PCs on the market at the moment. So many, in fact, on the market at the moment. So many, in fact, buyers could ready be confused by the number of solitons open to them. In order to make an impression in this competitive market, competed morphism have to red only other webspecified markets that are good value for more, but in

had to do this with the Bovo 200 and 3955X PG which are part of its new range of machiness. Physically the two PGs took direct identicial to each other, but intomally they have very different specification. The Bovo 206 is only people with posticitation. The Bovo 206 is only people with a 1988/st 20206 processor and 118b of PAM, whereas the threw 3865XYG has a 2004tc 3865X processor and a healthy 28b of IMAL it is regiment. They both can be

Bravo 3855X/20 has a 20MHz 3855X procesor and healthy 2Mb of RAM. If required, they both can expanded up to 16Mb on the system board.

CONSTRUCTIVE COMMENTS

Both reschines are sold and well built. They each have a maid case, which not only prevents the resistors of silectioningsride signals. Non the companier, a slow provides a solid platform to got a member on. Series provides a solid platform to got a member on. Series propole could have a potabler with the size of the cases, thought they take up a lot of decking space. In terms of imput occupat hore who series prots, a passillel got it. a PSIZ mouse port and a video port that

givini coupt from the integrated YVIA graphics cost. There are also five energy 4 feb emparises size or the methedouris of the machines. This is guide a larg number considering that most of the functions the would normally require add-on costs have bee incorporated on the mathetoscal, including the VG graphics support, serial and parallel ports and the dis drive controller. This integrated VFA cost can display Heroules, OGA and EGA graphics as well as VGA.

In terms of storage, both machines come with a 1.448b 3.54rch floopy stree and 4.448b and the Both of them see that by stordard in AT-class machines such as these. The keybords supplied with both machines has a 3 good foel to 8. The keys are light and responsive, and once present they give a definite bedoads, if it is a life once present they give a definite bedoads, if it is a

## WHAT'S UP DOCS?

Unusually, portage, the connection of the results of midels that of the missies the saw yapod. The finded that of the missies the saw yapod to the missies of the control of the control of the varieties. Not only tart, the interestion a sample of an intelligent does not also includes sectional details, missingle of the missies of the control of the visit who to remove the count of the machine and do not to the control of the control of the visit who to remove the count of the machine and do not to standard details such as the proving of the visities to the control of section of the control of the control of section of

### often the enhancements are to improve aestheto appearances rather than hardware performance. BALANCE OF POWER

considerably faster than a 4594-12 206. However, promosers paged on their years and expert the early determinants of good performance — has 36000 can have 32-bit applications and repending systems that require a 136000 processor, which opens up a whole year and a 38000 processor, which opens up a whole with the addition of a 380000 processor for 5550. AST has reflectioned to got seem the unpractical with the addition of a 380000 processor for 5550. AST has reflectioned to got seem purch professionary out of the machine's standard components as possible. The company has used in tower 80000 cffsist; processor and the standard components as possible.

Both AST's Brovo 286/16 and
 3865X/20 computers look like this on the outside, but the two are very different in terms of performance

Output System) which, it claims, improves performs by providing features such as Shadow RAM. Sha RAM is a portion of memory that has been set said hold a copy of the system and video BIOS, enab

in terms of hardware, the company has used surface married components with coatem. ASC (Advanced Specific Integrated Circuits) which, it also clauses do appear to make a difference in the owning performance of the married performance in the owning determine which enhancements are expectable for the improvements. In any case, both machines perform quickly and mortally with no obscura problem.

## IT'S YOUR CHOICE Prospective PC buyers could do much worse than look

at these hex AST machines. However, making a cholos between them is more difficult. There is a difference of 1540 between them is more difficult. There is a difference of 1540 between the machines and I you can afford it, the 3885X machine offices much better performance. However, the 288 machine can be upgraded to a 1865X, abet a more expensive option overall. The tillines 288 would be a good machine for low-

would be ideal for people who don't new amounts of processing power.

## DOES IT PASS THE TEST?

FOR

A Solid and consistent performers

A Very good documentation

A The 286 can have processor

V Lorge cases

COST: £1,105 for the Bravo 286
£1,645 for the Bravo 3865X

COMPETITION: IDM, Compaq, Ame

## SPECIFICATIONS

 Processor
 80288 (168Hz) (apgradoable to 388S C)
 Pr

 RAB:
 1889 (appradoable to 168D)
 80

 Scionage:
 1,4480 5.25-inch doppy
 51

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 2,949W 1.09-inlik 1.mouse: 1 prachics
 Pr

AST Bravo 1865X/29 sor: 86386XX (20Mbz) 28tb (expandable to 16Mb t: 1,44Mb 3,5-inch flappy 46Mb hard drive 2 serial; 1 parallel; 1 mou

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Will the world's first 'hologame' start a new trend or take a one-way trip to the arcade graveyard? Rik Haynes speaks with the enterprising entertainment engineers at Sega...

ho would have guessed fifteen, or only five years ago, that players would be seeing arcade prove ago, that payers wow on the of the games with holographic displays? One of the Rick Dyer of Hologram Ventures in San Diego is

## THE HOLOGRAM'S

"Essentially we're taking video source stored on a

The technology offers some fantastic opportunities for

the players. Perhaps we'll have some form of VR in the future

Classic hallmarks of the old technology such as

### HEROIC TIME TRAVELER All this technology and trademarking is very dandy, but

## A TRULY GLOBAL HIGH TECHNOLOGY ELECTRONIC ENTERTAINMENT GIANT

Ever since US-based Quiff & Western Industries sold Seas seven years acc, the objective During this time Sees has built-up a regulation for impossion in both the home and

Last year, over Yan3.5 billion was spent on the research and development of new

the first 16-bit home video game console in late 1988. The Sega Magachive is giving even

## ENTERTAINMENT

to high fidelity speakers so players can hear the

THE REAL CHALLENGE

### X-PATED HOLOGAMES? including Playboy, so could there be an X-rated

with his friends at With Design in Mind, Together 'point-of-sale' window widgets to promote their

laserdisc video technique was introduced to

Torn Petit is very cagey when it comes to talking

## THE ENTERTAINMENT FACTOR So what are the important factors in creating a good

INTERACTION AT THE MOVIES

### The simple architecture and proven components inside Time Traveler means Arcades can throw away their Out of Order signs

Transactive movies are underway at several

## PATENTED DISPLAY



. The concave spherical mirror and monitor are arranged such that light lines) to form a "real image" of the picture on the monitor screen in a space

"We have one at Segs that we're working on right

worlds so the player can go in and access any point

Segs is to be congratulated. The holographics of

new Issertiac came on the scene. Mad Dog McGeel # Hologram Time Traveler is already being played by

# SYSTEM FILTERING AND COOLING

· A simple flow diagram for a very complex holographic system







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